## Contents

## Volume 271 (1992)

Research Papers	
Collaborative study using the preincubation Salmonella typhimurium mutation assay for airborne particulate matter	
in Japan. A trial to minimize interlaboratory variation	
H. Matsushita, O. Endo, S. Goto, H. Shimizu, H. Matsumoto, K. Tamakawa, T. Endo, Y. Sakabe, H. Tokiwa and	
M. Ando (Japan)	1
Discrimination of aneuploidogens from clastogens by C-banding, DNA and area measurements of micronuclei from mouse bone marrow	
P. Van Hummelen, A. Deleener, P. Vanparys and M. Kirsch-Volders (Belgium)	13
Micronucleated reticulocyte induction by ethylating agents in mice	
A.O. Asita, M. Hayashi, Y. Kodama, A. Matsuoka, T. Suzuki and T. Sofuni (Japan)	29
Contributions to the design and statistical analysis of in vivo SCE experiments	•••
S.A. Murphy, R.R. Tice, M.G. Smith and B.H. Margolin (U.S.A.)	39
Species differences in the genotoxicity of cyclophosphamide and styrene in three in vivo assays	40
A.P. Simula and B.G. Priestly (Australia)	49
Improved high bioactivation cross for the wing somatic mutation and recombination test in <i>Drosophila melanogaster</i>	***
U. Graf and N. Van Schaik (Switzerland, R.S.A.)	59
Micronuclei and other nuclear anomalies in buccal smears: methods development	(0
P.E. Tolbert, C.M. Shy and J.W. Allen (U.S.A.)  Application of an epithelial liver cell line, metabolically competent, for mutation studies of promutagens	69
G. Turchi, A. Nardone and F. Palitti (Italy)	79
Mutagenicity assay for nitroarenes of air pollutants held in leaves of woody plants	19
J. Suzuki, K. Kuwayama and S. Suzuki (Japan)	89
3. Suzuki, K. Kuwayama and S. Suzuki (Sapun)	0,9
Series: 'Current Issues in Mutagenesis and Carcinogenesis'	
No. 29. Dose-ranging and dose-setting for in vivo genetic toxicology studies	
J.M. Mackey and B.M. Elliott (Great Britain)	97
•	
Research Paper	
High-dose combination alkylating agents with autologous bone-marrow support in patients with breast cancer:	
preliminary assessment of DNA damage in individual peripheral blood lymphocytes using the single cell gel electrophoresis assay	
R.R. Tice, G.H.S. Strauss and W.P. Peters (U.S.A.)	101
European Environmental Mutagen Society	
Selected Poster Abstracts of the 21st Annual Meeting of the European Environmental Mutagen Society, 25-31	
August 1991, Prague (Czechoslovakia)	115
Parameter Parame	
Research Papers  Unscheduled DNA synthesis in human hair follicles after in vitro exposure to 11 chemicals: comparison with	
unscheduled DNA synthesis in rat hepatocytes	
Y.H.M. van Erp, M.J.E. Koopmans, P.R.C.M. Heirbaut, J.C.M. van der Hoeven and P.J.J.M. Weterings (The	
Netherlands)	201
Chromosomal aberration analysis in peripheral lymphocytes of radiation workers	
A.N. Balasem, AS.K. Ali, H.S. Mosa and K.O. Hussain (Iraq)	209
Mutagenicity of 2-methylpropene (isobutene) and its epoxide in a modified Salmonella assay for volatile compounds	
M. Cornet, P. Castelain, A. Vercruysse, R. Laib, M. Kirsch-Volders and V. Rogiers (Belgium)	213
Skin cytogenetic assay for the detection of clastogens-carcinogens topically administered to mice	
R. Barale, C. Scapoli, A. Falezza, L. Ventura, F. Bernacchi, N. Loprieno and I. Barrai (Italy)	223

Use of a T-lymphocyte clonal assay for determining HPRT mutant frequencies in individual rats	
F.J. van Dam, A.T. Natarajan and A.D. Tates (The Netherlands)	231
Assessment of radiation-induced DNA damage in human blood lymphocytes using the single-cell gel electrophoresis	
technique	
Vijayalaxmi, R.R. Tice and G.H.S. Strauss (U.S.A.)	243
Quantitative integration of the Salmonella microsuspension assay with supercritical fluid extraction of model airborne	
vapor-phase mutagens	
N.Y. Kado, J.M. Wong, P.A. Kuzmicky, J.E. Woodrow, H. Ning, J.N. Seiber and D.P.H. Hsieh (U.S.A.)	253
Evaluation of in vitro cytogenetic techniques in nine European laboratories in relation to chromosomal endpoints	
induced by three model mutagens	
M. Sorsa, K. Autio, A. Abbondandolo, E. Carbonell, N. Demopoulos, C. Garner, M. Kirsch-Volders, R. Marcos,	
E. Marafante, A.T. Natarajan, E.M. Parry, K. Psaraki, G. Stephanou, A.D. Tates and R. Waters (Finland, Italy,	
Spain, Greece, U.K., Belgium, The Netherlands)	261
Quantitative correlation of mutagenic and carcinogenic potencies for heterocyclic amines from cooked foods and additional aromatic amines	
F.T. Hatch, M.G. Knize, D.H. Moore II and J.S. Felton (USA)	269
Enhanced cytogenetic detection of previous in vivo exposure to mutagens in human lymphocytes after treatment with	
inhibitors of DNA synthesis and DNA repair in vitro	
Ø. Jelmert, IL. Hansteen and S. Langård (Norway)	289
Contents, Vol. 271 (1992)	299
Announcement	300

## Announcement

## Workshop on Chromosome Segregation and Aneuploidy

An Advanced Research Workshop on Chromosome Segregation and Aneuploidy will be held 11-15 October 1992 in Crete (Greece), and will be partially funded by NATO. It will be open to about 50 selected participants, including invited speakers, who are actively engaged in research in this field and/or whose future research can most profitably benefit by attendance. Limited financial aid may be available. The deadline for applications is 30 July 1992. Please contact: Professor Dr. Baldev K. Vig, Institute of Cell and Tumor Biology, German Cancer Research Center, Im Neuenheimer Feld 280, D-6900 Heidelberg 1 (Germany), Tel. (49) 6221-423-425; Fax (49) 6221-402-598.